



# JAVA **FAKTURA**

S01: Java is the new Black

E02: Optionale i Streamy

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# O mnie – Adam Król

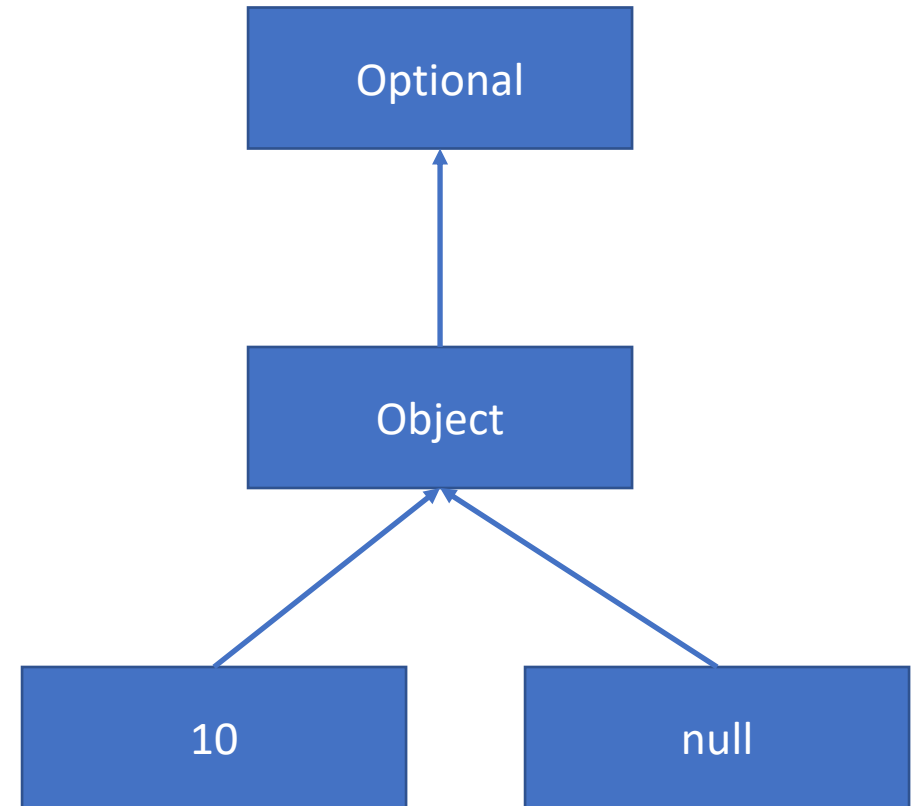
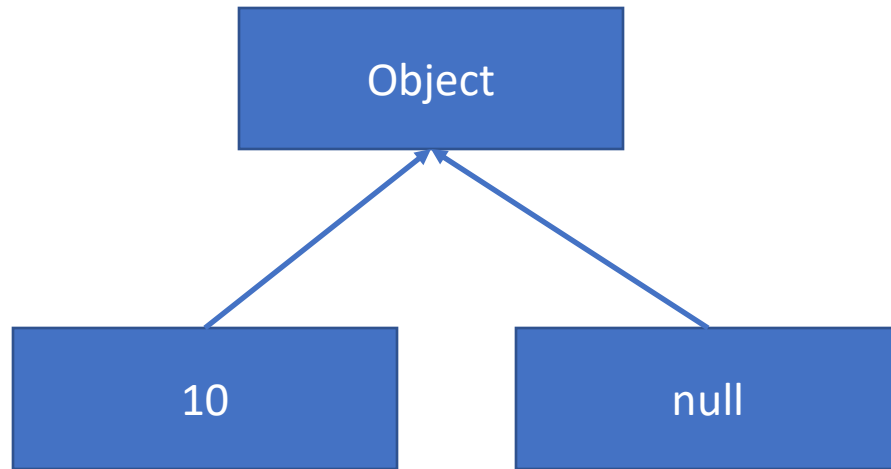
- Ponad 5 lat doświadczenia w tworzeniu oprogramowania
- Prowadzący zajęć praktycznych na Politechnice Łódzkiej (FTIMS)
- Trener praktyk developerskich w IDEMII
- Od niedawna Scrum Master



**Optional** – Bezpieczny kontener na obiekty

**Stream** – Leniwy dostęp do kolekcji pozwalający na jej transformacje, filtrowanie i wiele więcej

# Optional<T>



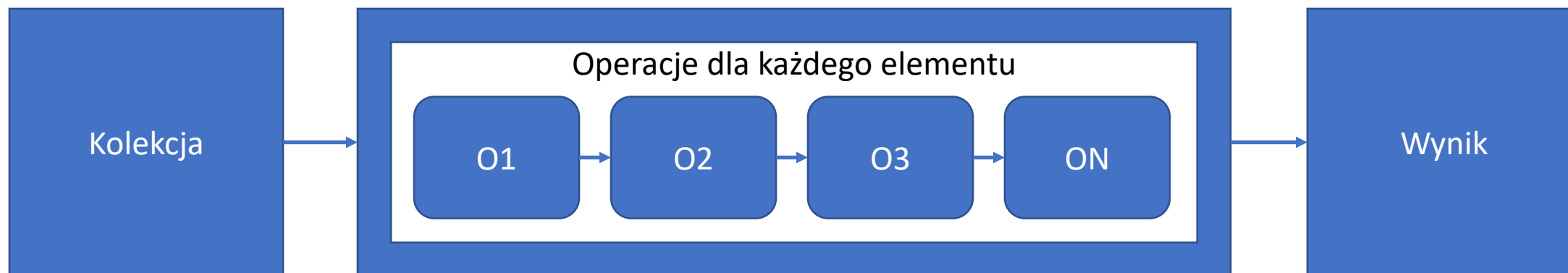
# Optional<T>

Our intention was to provide a limited mechanism for library method return types where there needed to be a clear way to represent "no result", and using null for such was overwhelmingly likely to cause errors.

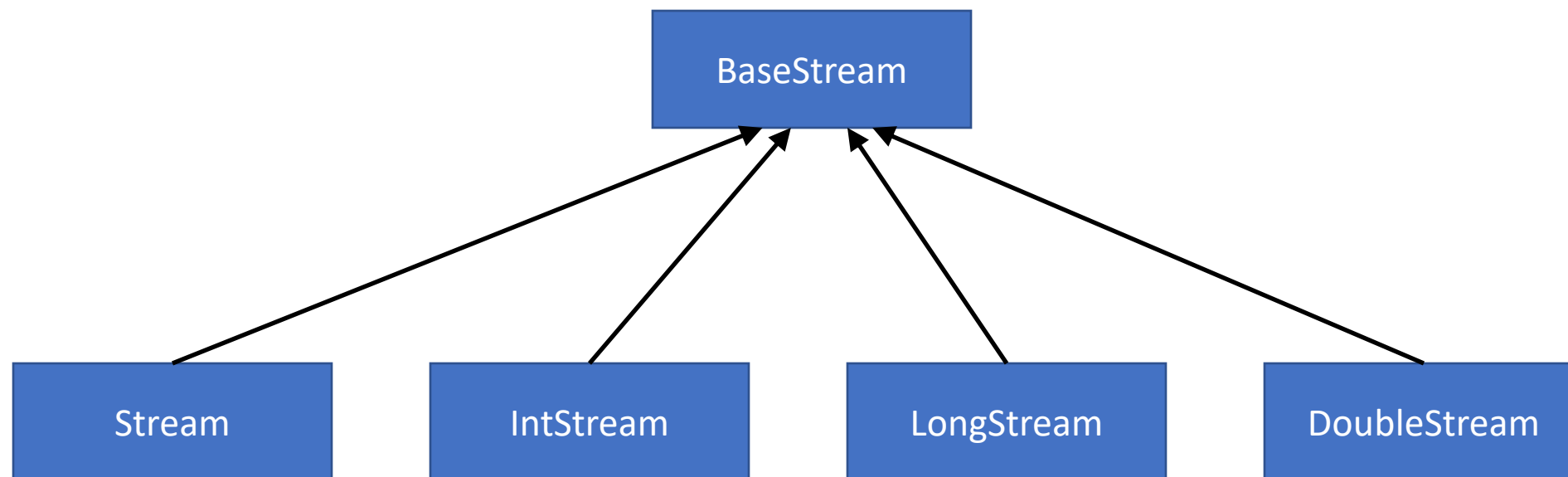
- Brian Goetz @ Stackoverflow

Source: <http://tinyurl.com/ybk8ky9u>

# Stream



# BaseStream



# Tworzenie Streamów

- `Stream#of`
- `Stream#empty`
- `Stream#builder`
- `Stream#generate`
- `Stream#iterate`
- `Collection#stream`



# Operacje pośrednie

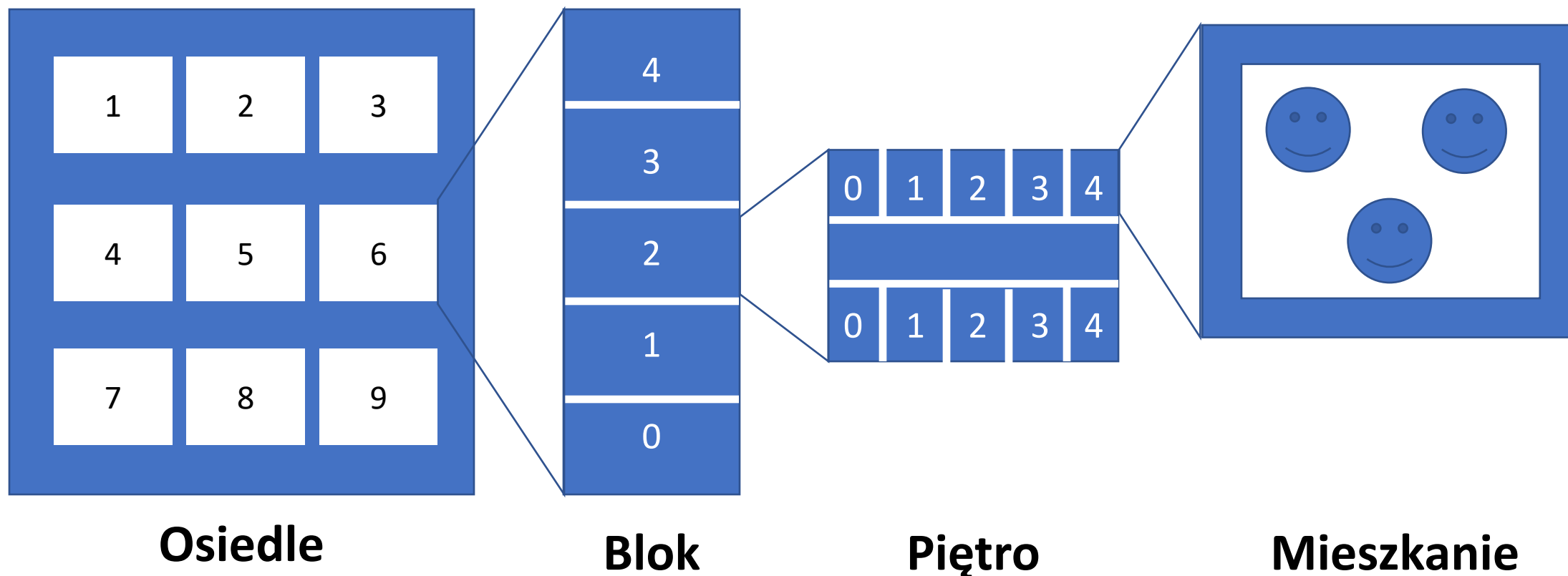
- map
- flatMap
- filter
- sorted
- limit
- skip
- takeWhile
- dropWhile

# Operacje terminujące

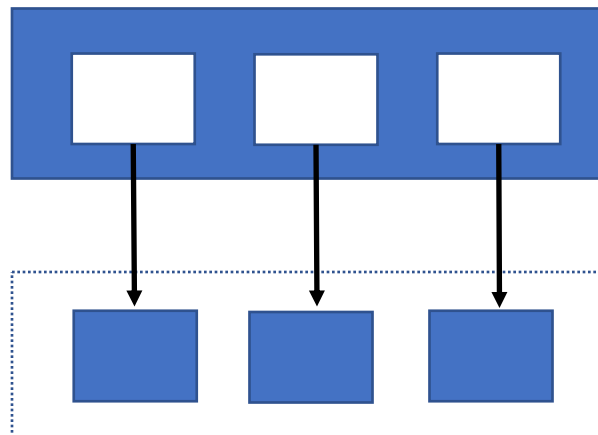
- `forEach`
- `collect`
- `reduce`
- `min`
- `max`
- `count`
- `any` | `none` | `allMatch`
- `findFirst` | `Any`
- `toArray`

# Stream<T>

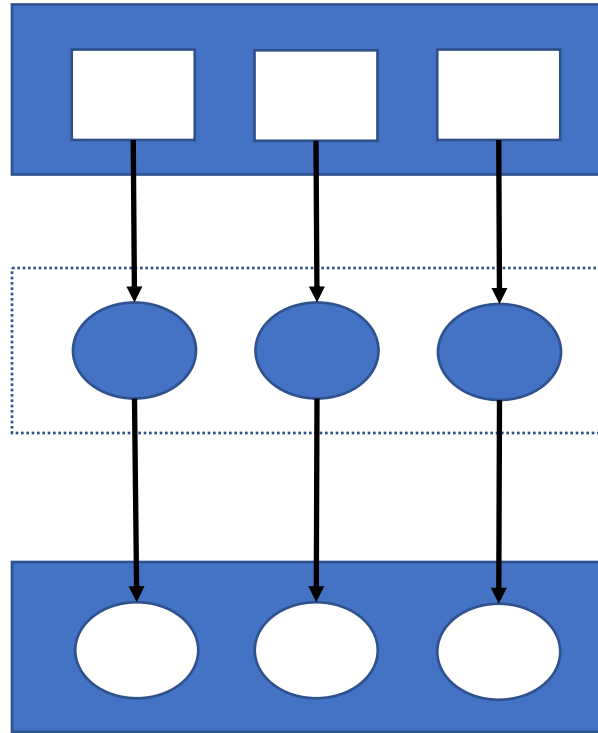
## Model danych: Blokowisko



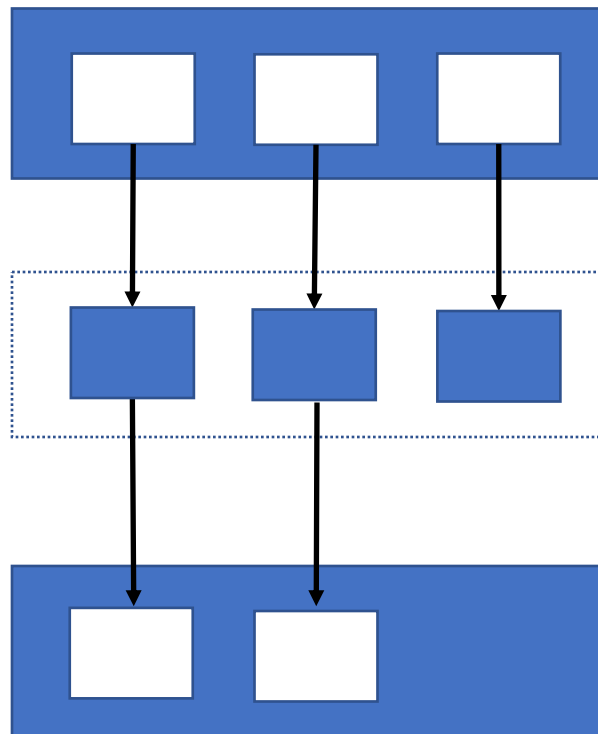
# Stream<T>.forEach



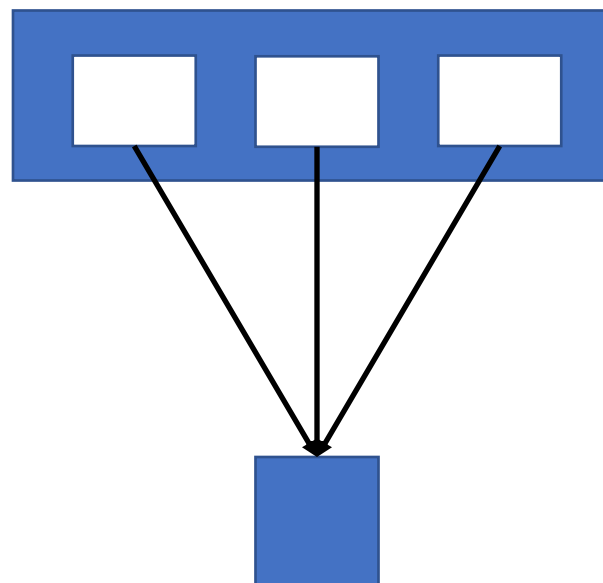
# Stream<T>.map



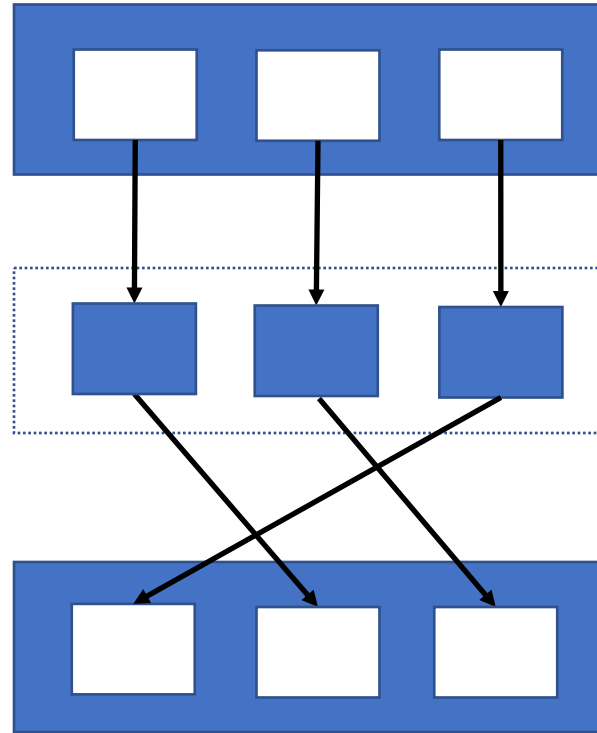
# Stream<T>.filter



# Stream<T>.collect



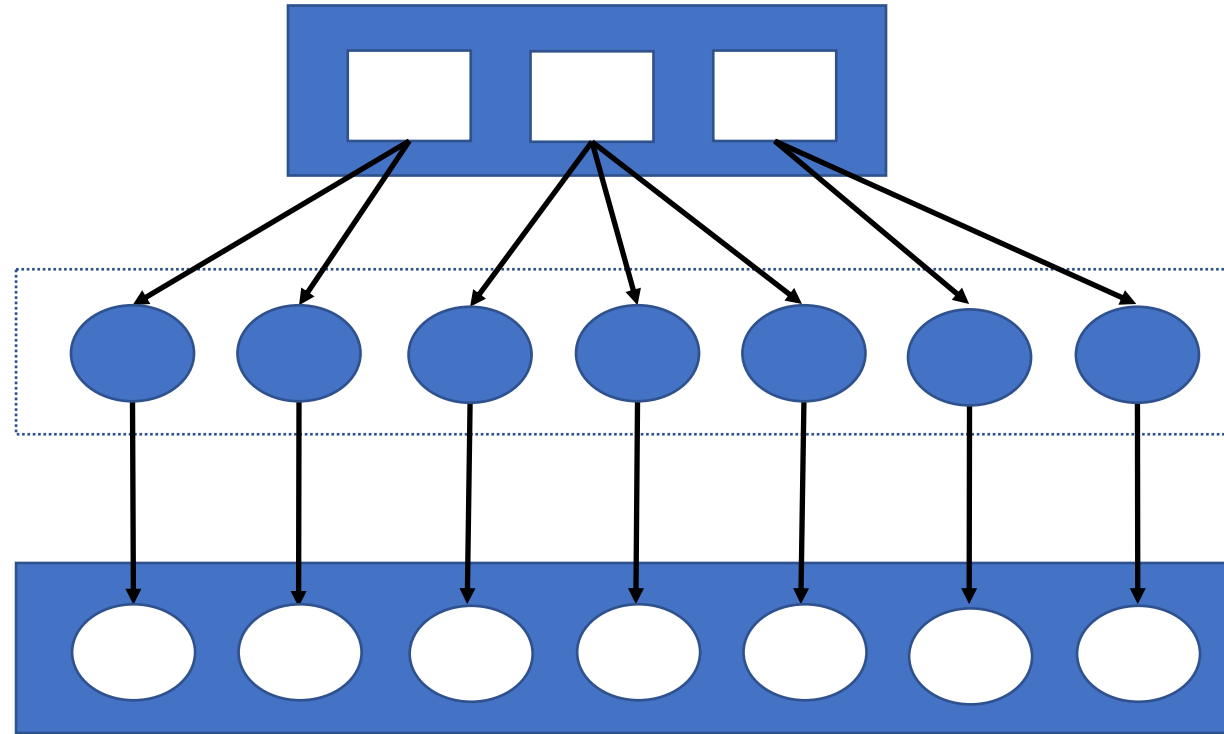
# Stream<T>.sorted







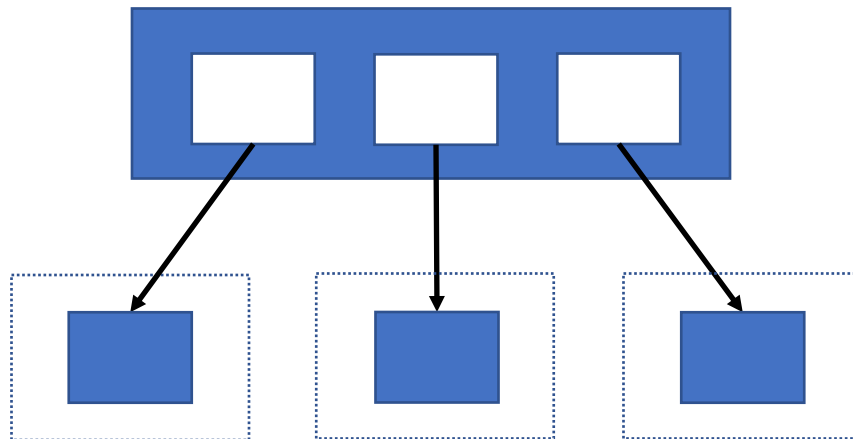
# Stream<T>.flatMap



# PrimitiveStreams

- IntStream
- LongStream
- DoubleStream

# Stream<T>.parallel()



Dziękuję za uwagę

